

MENU

SEARCH

INDEX

DETAIL

JAPANESE

BACK

NEXT

9 / 16

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-349811  
 (43)Date of publication of application : 15.12.2000

(51)Int.Cl. H04L 12/56

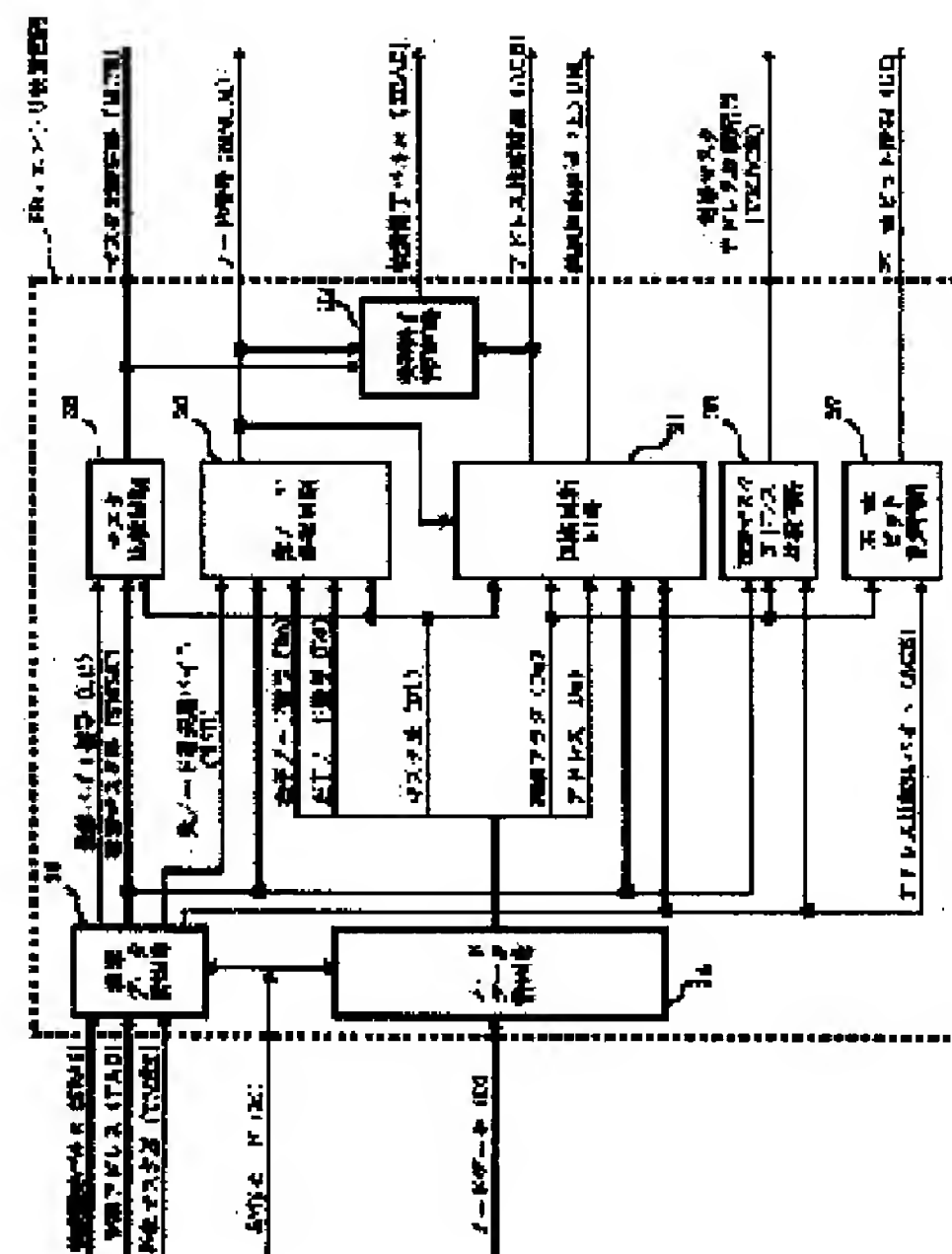
(21)Application number : 11-162551 (71)Applicant : NEC CORP  
 (22)Date of filing : 09.06.1999 (72)Inventor : YAMADA NORIKUNI

## (54) COMMUNICATION CONTROLLER

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a technology that conducts path retrieval processing at a high-speed, suppresses a memory capacity from being increased without the need for increasing the circuit scale and can retrieve a path independently of the length of a retrieved address even when the address length is longer.

SOLUTION: This communication controller is provided with a retrieval data management section 33 that expresses a node of a path tree corresponding to a path table with division addresses resulting from dividing a real address by one byte each and with a division mask length and generates 4-stages of address comparison bytes(ACB) resulting from dividing a retrieval address by one byte each and a next node selection type(NSB), a next node selection circuit 30 that decides a node to be retrieved next on the basis of this NSB, and a path update circuit 31 that compares a valid address part denoting a division mask length(Db) in division addresses(Da) with a division mask length in address comparison bytes.



## LEGAL STATUS

[Date of request for examination] 23.05.2000  
 [Date of sending the examiner's decision of rejection]  
 [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]  
 [Date of final disposal for application]  
 [Patent number] 3216630  
 [Date of registration] 03.08.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]